TENAC™ 4010

POM — Asahi Kasei

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**8.7**	cm³/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Melt flow index, MFI	**10**	g/10min	ISO 1133

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**3200**	MPa	ISO 527
Yield stress	**71**	MPa	ISO 527
Strain at break	**40**	%	ISO 527
Flexural modulus, 23°C	**2900**	MPa	ISO 178
[C] Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Strength	**70**	MPa	ASTM D 638
Elongation at Break	**45**	%	ASTM D 638
Flexural Modulus	**2900**	MPa	ASTM D 790
Flexural Strength	**103**	MPa	ASTM D 790
Rockwell Hardness	**R 120**	-	ASTM D 785
Taber Abrasion Resistance	**13**	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	**85**	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**105**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**165**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**100**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Coefficient of Thermal Expansion, MD	**100**	E-6/K	ASTM D 696
DTUL @ 66 psi	**172**	°C	ASTM D 648
DTUL @ 264 psi	**136**	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Dielectric Strength, Short Time	**18**	kV/mm	ASTM D 149
Surface Resistivity	**1E17**	Ohm	ASTM D 257
Volume Resistivity	**1E16**	Ohm*cm	ASTM D 257
Arc Resistance	**250**	s	ASTM D 495

Other properties	Value	Unit	Test Standard
[C] Density	**1420**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.2**	%	ASTM D 570
Density	**1420**	kg/m³	ASTM D 792

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 90**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**190 - 210**	°C	-

Mold temperature	**60**	°C	-

Characteristics

Processing
Injection Molding, Other Extrusion

Delivery form
Pellets

Special Characteristics
High impact or impact modified

Features
Homopolymer

Applications
General Purpose

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa